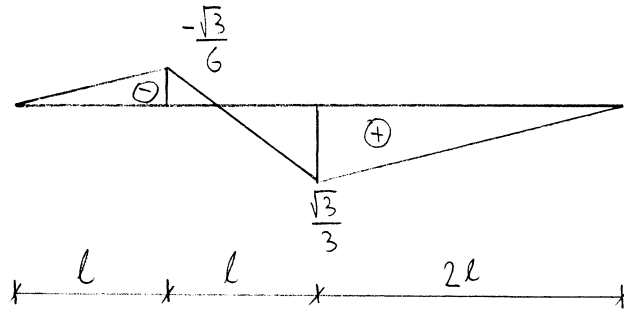
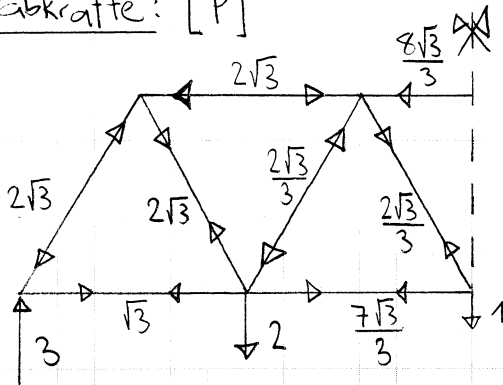


1) a)  $\eta_{538}$

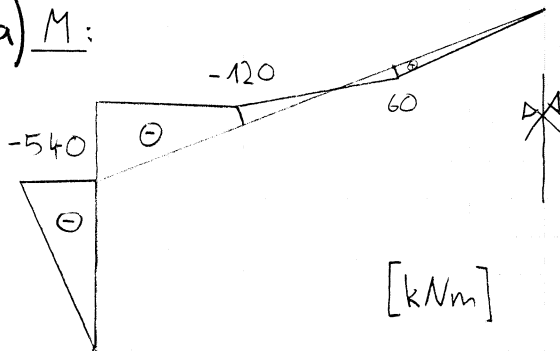


b) Stabkräfte: [P]

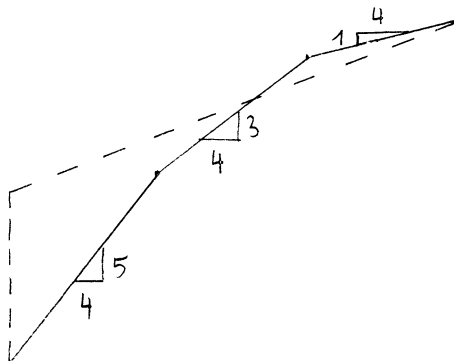


c)  $w = \frac{16\sqrt{3} \cdot l \cdot \epsilon}{3}$

2) a) M:

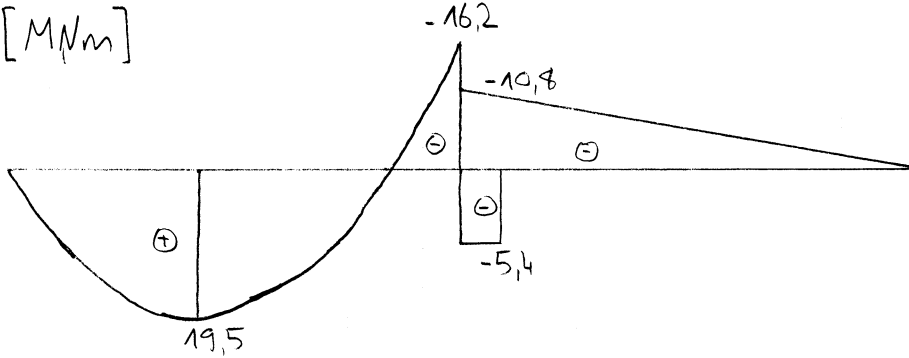


b) Stützlinie:

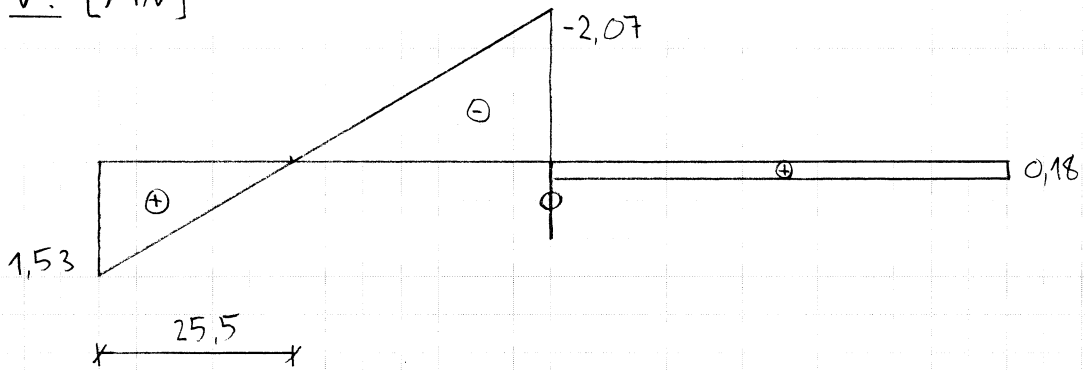


c)  $w = 53,4 \text{ mm}$

3) a)  $\underline{M}: [MNm]$

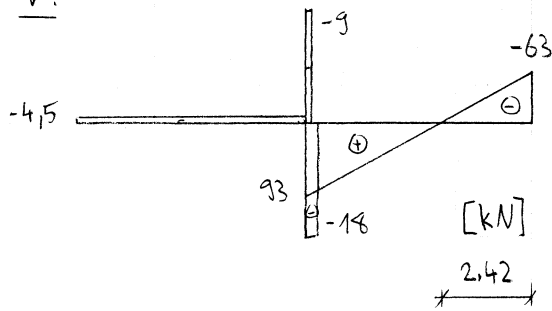


$\underline{V}: [MN]$

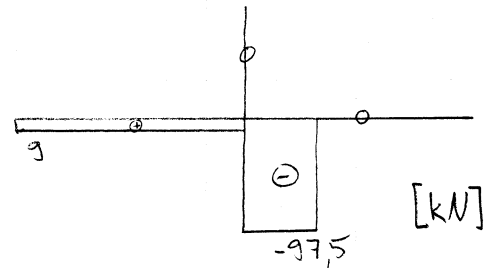


b)  $\varphi_A = 0,945 \text{ mrad}$  (im UZS)

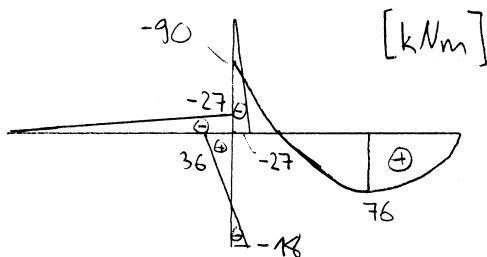
4) a)  $\underline{V}: [kN]$



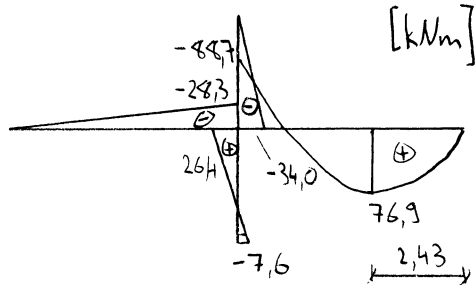
$\underline{N}: [kN]$



$\underline{M}: [kNm]$



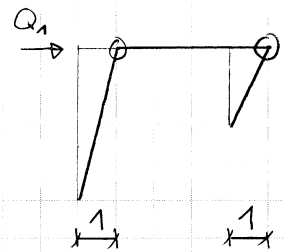
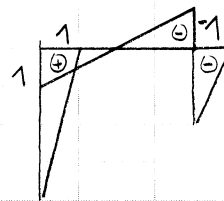
4) b) M:



Verschiebung in 1 und 3:  $u = 0,283\text{mm}$  (nach rechts)

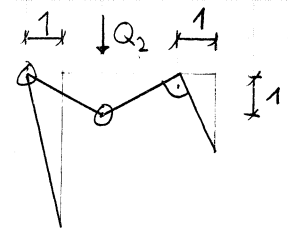
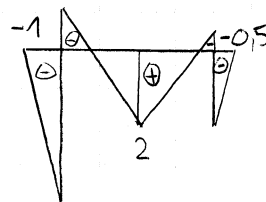
5) a)  $Q_{1u} = \frac{3M_u}{l}$

M:  $[M_u]$

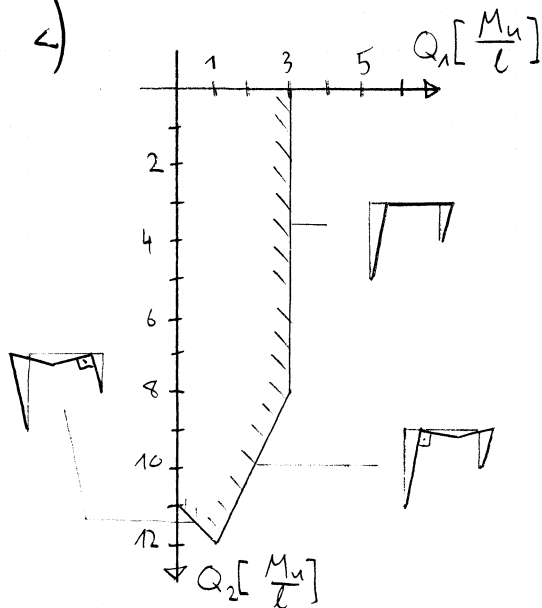


b)  $Q_{2u} = \frac{11M_u}{l}$

M:  $[M_u]$



4)



6)  $Q_{cr} = \frac{6EI_0}{l^2} = 0,61 \cdot \frac{\pi^2 EI_0}{l^2}$

$Q_{cr} (EI = EI_0 = \text{const.}) = \frac{\pi^2 EI}{l^2}$